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# SHC68-C68-D4 Specifications

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2024-04-30



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# Specifications

This document lists the specifications for the SHC68-C68-D4. Specifications in this document are nominal unless otherwise noted. Specifications are subject to change without notice. Refer to [ni.com/manuals](https://ni.com/manuals) the most recent specifications.



**Caution** Do not exceed the operating specifications for the device connected to the SHC68-C68-D4. Refer to the documentation for your high-speed digital device for the warranted, maximum operating temperature, additional environmental requirements, and pinouts.

The SHC68-C68-D4 is available with the following options and lengths:

- 0.55 m (781013-01)
- 1 m (196275-01)
- 1 m low leakage<sup>[1]</sup> (152870-01)
- 2 m (781293-01)

Visit [ni.com/info](https://ni.com/info) and enter the Info Code D4COMPATIBILITY for a list of devices and accessories that are compatible with the SHC68-C68-D4.

## Electrical Specifications

Maximum voltage	±30 VDC
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Specification	0.55 m	1 m and 1 m Low-Leakage <sup>[1]</sup>	2 m
Characteristic impedance	50 Ω ±10%	50 Ω ±10%	50 Ω ±10%
Resistance	0.3 Ω	0.5 Ω	1 Ω
Capacitance	60 pF	100 pF	200 pF
Propagation delay	2.7 ns	4.9 ns	9.6 ns

Specification	0.55 m	1 m and 1 m Low-Leakage <sup>[1]</sup>	2 m
Channel-to-channel skew	50 ps	50 ps	75 ps

## Physical Characteristics

<b>Weight</b>	
0.55 m	175 g (6.2 oz)
1 m and 1 m low leakage	255 g (9.0 oz)
2 m	435 g (15.3 oz)
<b>Wire gauge</b>	
Size	0.032 mm <sup>2</sup> (32 AWG)
Stranding	7/0.08 mm (7/40)
I/O connectors	68-pin male VHDCI connector (x2)
I/O channels	40 single-ended channels

## Safety

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA 61010-1

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